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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/506,760	06/09/2005	Chie Hirai	MAT-8596US	8920
52473 RATNERPRE	7590 02/16/2007 STIA		EXAM	INER
P.O. BOX 980				MMAD M
VALLEY FOR	RGE, PA 19482			PAPER NUMBER
			3744	
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	ONTHS	02/16/2007	PAP	FR

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	10/506,760	HIRAI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Mohammad M. Ali	3744	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY OF THE MAILING IDENTIFY OF THE MONTHS FROM THE MAILING IDENTIFY OF THE MONTHS FROM THE MINING THE MONTHS FROM THE MONTHS	DATE OF THIS COMMUNICAL 136(a). In no event, however, may a report will apply and will expire SIX (6) MONTING te, cause the application to become ABA	ATION. Ply be timely filed HS from the mailing date of this communication NDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 09.	June 2005.		
,	is action is non-final.		
3) Since this application is in condition for allows			is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-9 is/are pending in the application.			
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-9</u> is/are rejected.			
7) Claim(s) is/are objected to.	/		
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examir	ner.		
10)⊠ The drawing(s) filed on 09 June 2005 is/are:	a)□ accepted or b)□ objec	ted to by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corre			
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form P10-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:		119(a)-(d) or (f).	
1. Certified copies of the priority documer		unlication No	
2. Certified copies of the priority documer3. Copies of the certified copies of the pri	•		
application from the International Bure	•	cceived in this National Stage	
* See the attached detailed Office action for a lis		eceived.	
Attachment(s)	•	,	
1) Notice of References Cited (PTO-892)	4) Interview So	ummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date formal Patent Application	
 Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>See Continuation Sheet</u>. 	6) Other:		
S. Patent and Trademark Office			

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :11/14/05, 01/19/07 & 09/08/04 .

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirai Chie et al., (JP 11-060758 A). Hirai Chie et al., disclose a refrigerator comprising a compressor 9, a condenser 11, an evaporator 7linked together forming a cycle, and a heat insulating box 1composed of an inner box with inner case 5 facing inward of the refrigerator and an outer box facing outward of the refrigerator, in which a heat insulator composed of a board shaped molded inorganic fiber is disposed inside a space of the heat insulating box, the heat insulator being a vacuum heat insulator, in which a board shaped molded inorganic fiber is covered by a gas barring-film and inside the film is evacuated . See Fig. 1 and 2 and the enclosed translation. Furuta et al., disclose invention substantially as claimed as stated above except a capillary tube and flammable refrigerant. Capillary tube is a known element in the refrigeration art and obviously there should be either a capillary tube or expansion valve. Regarding flammable refrigerant, it is an intended use in the refrigerant circuit and the structure of Hirai Chi et al., is able to use the flammable refrigerant. Regarding claim 4 for door to be vacuum insulated is also obvious as the whole body needed the same type of insulation to make it workable. Regarding claim 8 and 9 for molded inorganic material to be either

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a silica or alumina is obvious choice of the individual skilled in the art since there is no criticality or unexpected result from it.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad M. Ali whose telephone number is 571-272-4806. The examiner can normally be reached on maxiflex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl J. Tyler can be reached on 571-272-4808. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MOHAMMAD M. ALI PRIMARY EXAMINER